

US Model Canadian Model AEP Model UK Model F Model

STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL

Power Requirements:

120, 220 V ac, 50/60 Hz (AEP, E model) 220, 240 V ac, 50/60 Hz (UK model) 120 V ac, 60 Hz (US, Canadian model)

Power Consumption:

8W (US, Canadian model) 12W (AEP, E, UK model)

Dimensions:

480 (w) x 165 (h) x 420 (d) mm $18^{7}/_{8}$ (w) x $6^{1}/_{2}$ (h) x $16^{1}/_{2}$ (d) inches including projecting parts and controls

Weight:

Approx. 12 kg, 26 lb 7 oz (net) Approx. 13.3 kg, 29 lb 5 oz

(in shipping carton)

TURNTABLE

Platter:

32 cm (125/s inches), diecasting

aluminum alloy

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND A MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY.

DC servo-controlled linear BSL motor Motor:

Direct drive, crystal lock control Drive System:

system

 $33\frac{1}{3}$, 45 rpm. Speeds:

Comes to nominal speed within a half **Starting Characteristics:**

revolution (33½ rpm)

±0.045% (DIN) Wow and Flutter:

0.025 % (WRMS)

75 dB (DIN-B) S/N Ratio:

Within 0.0003 % Initial Drift:

Load Characteristics: 0 % up to 150 g tracking force

Lead-in, return, reject, repeat **Automatic System:**

TONEARM

Statically balanced, universal Type:

330 mm (13 inches), overall 235 mm ($9\frac{1}{4}$ inches), pivot-to-styl us Arm Length:

14 mm (%16 inches) Overhang:

+2°27', -1°30' Tracking Error:

Tracking-force Adjustment Range:

0 - 2.5 g

11 g Shell Weight:

Cartridge Weight Range: 11.0 - 19.5g

 $(19.0-27.5\,\mathrm{g}\,\mathrm{with}\,\mathrm{extra}\,\mathrm{weight})$ (including shell)

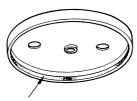


SERVICING NOTE

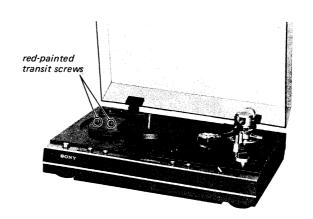
- 1. Wait a few minutes after the power switch is turned on.
- 2. When replacing the lamp of automatic-return detection, make the automatic-return adjustment (page 13).
- 3. Platter handling.

4. When operating the set, confirm that the transit screws are removed.





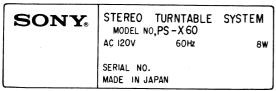
Be sure not to spoil the magnetic coating (dark brown color).



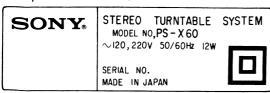
MODEL IDENTIFICATION

- Specification Label -

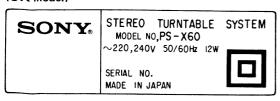
(US, Canadian model)



(AEP, E1 and E2 model)

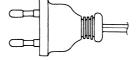


(UK model)



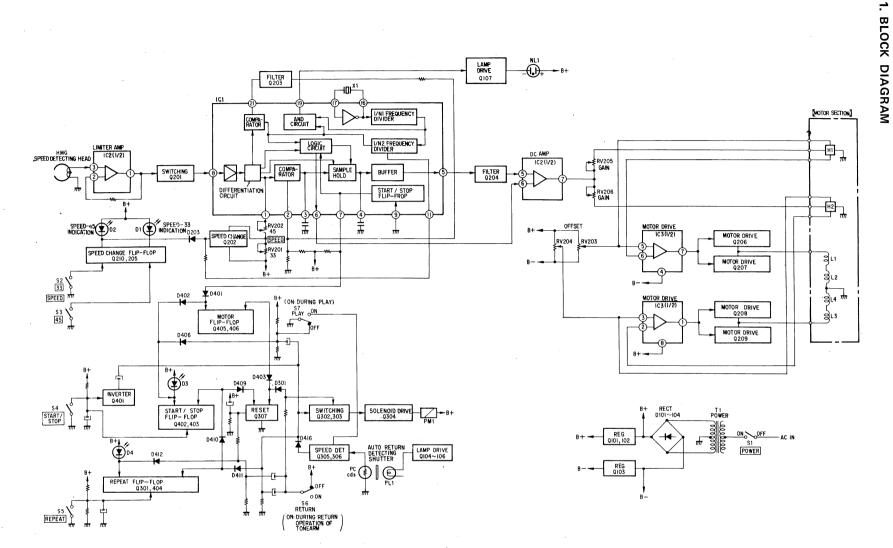
- Power Cord -

E1 model: euro-plug E2 model: parallel-blade plug 1-551-530-00 1-534-487-XX





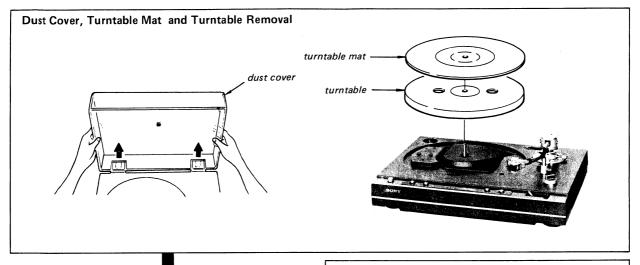
SECTION 1

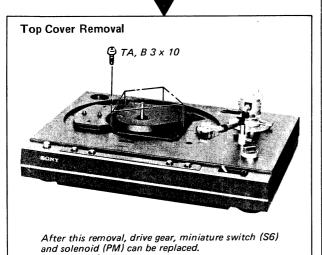


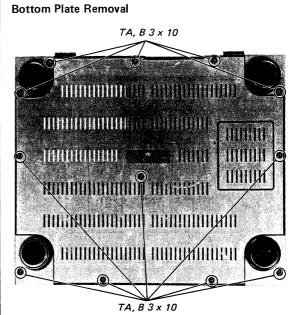
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SECTION 2 DISASSEMBLY

 Follow the disassembly or the installation procedure in the numerical order given.



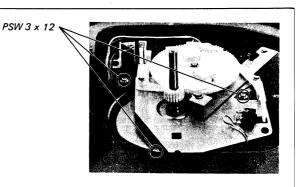


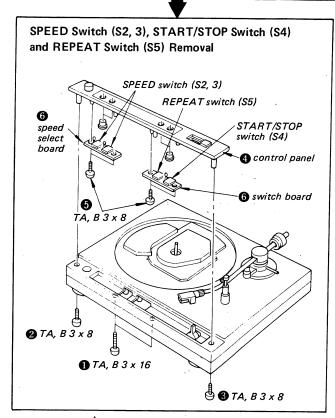


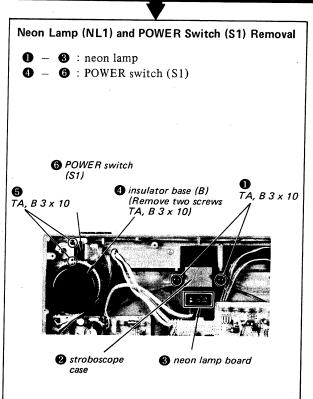
Motor Removal

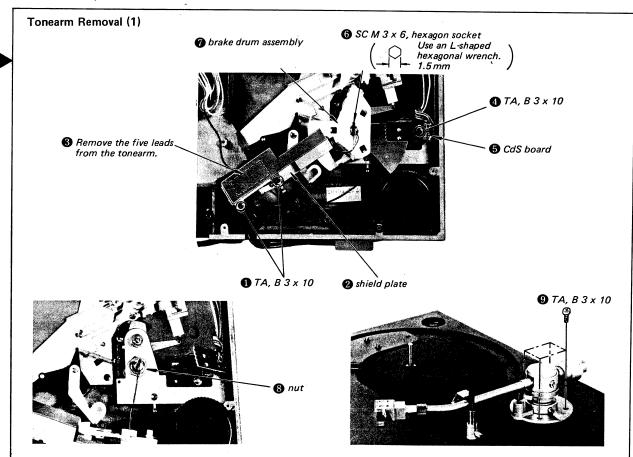
(See page 7.)

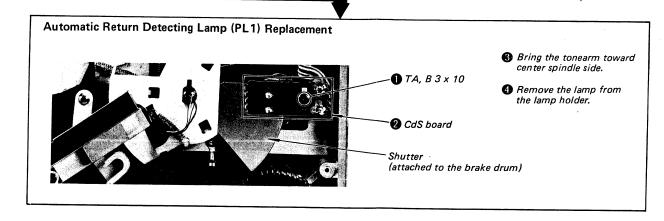
- 1. Disconnect the moter lead-wires from the servo amp/system control board.
- 2. Remove the three screws (PSW 3 x 12).
- 3. Remove the motor.

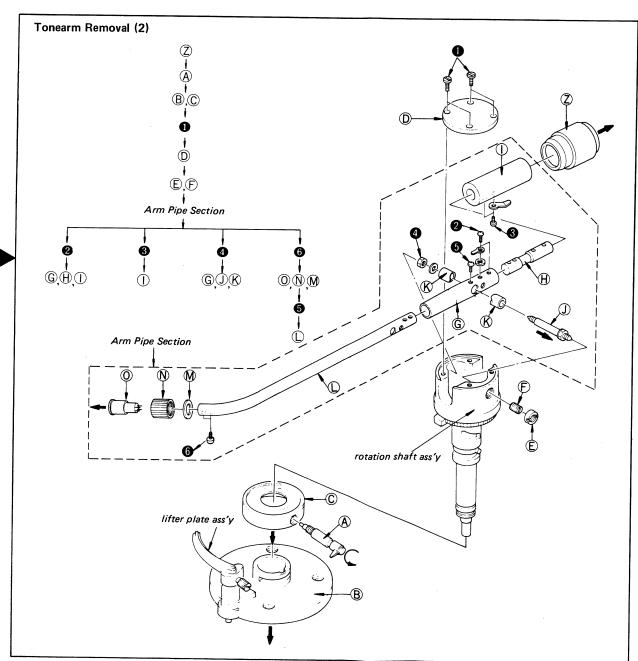


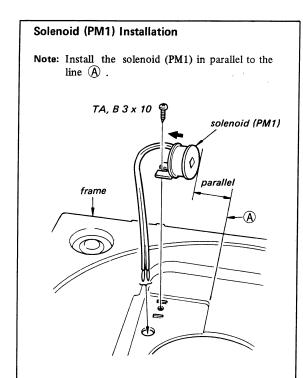


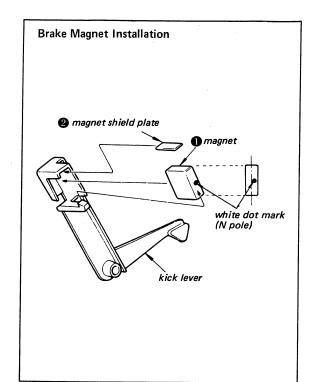


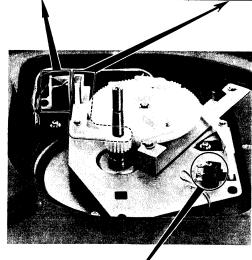


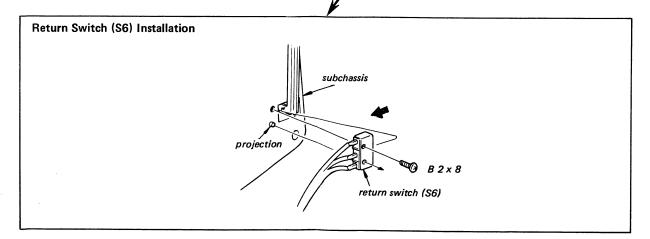










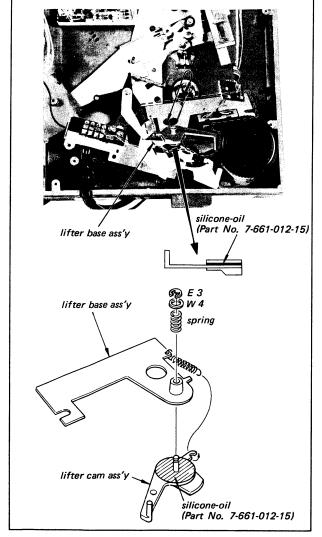


Note on Arm Lifter Mechanism

The arm lifter mechanism of this set uses siliconeoil as damper between the lifter cam assembly and the lifter base assembly.

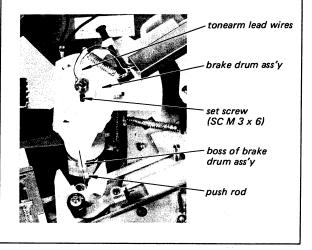
If the arm lifter moves down too quickly, apply silicone-oil in the numerical order given.

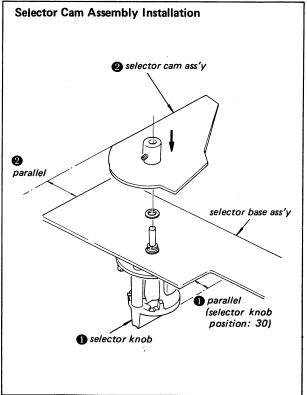
- 1. Perform the tonearm removal (1) on page 5.
- 2. Remove the lifter base assembly.
- 3. Remove E3 and the lifter cam assembly from the lifter base assembly.
- 4. Wipe off the silicone-oil on the lifter cam assembly and the lifter base assembly.
- 5. Apply silicone-oil (7-661-012-15) on the lifter cam assembly.
- 6. Install the lifter cam assembly on the lifter base assembly.

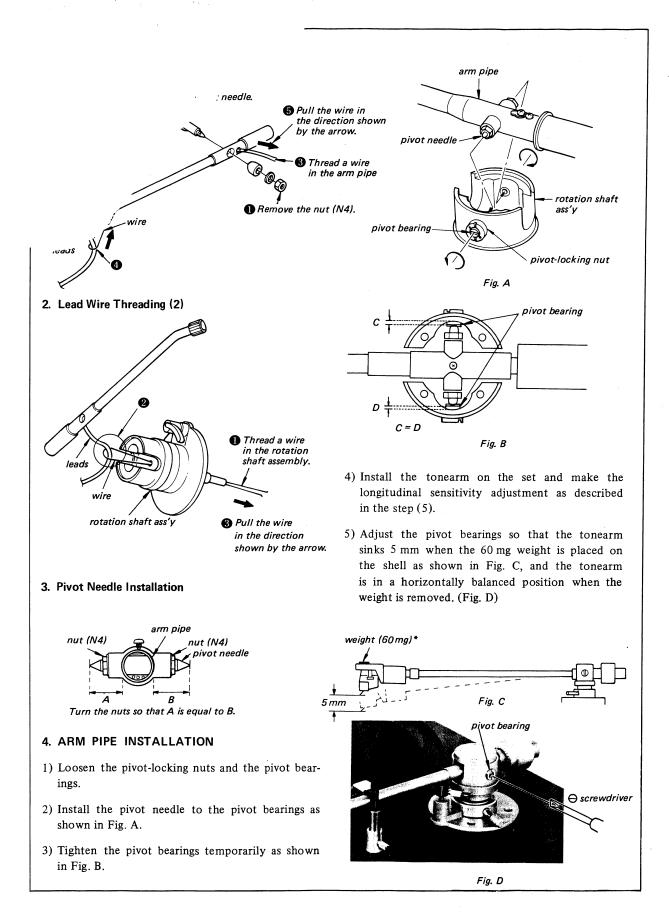


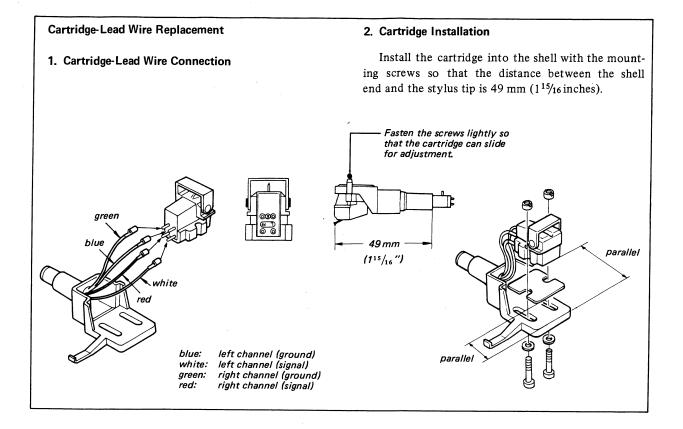
Brake Drum Assembly Installation

- 1. Thread the lead wires of tonearm in the brake drum assembly.
- 2. Insert the brake drum assembly in the rotation shaft of tonearm.
- 3. Place the boss of brake drum assembly as shown below and fix the brake drum assembly with a set screw (SC M 3 x 6).
- 4. Perform the automatic return adjustment (Refer to the page 13).



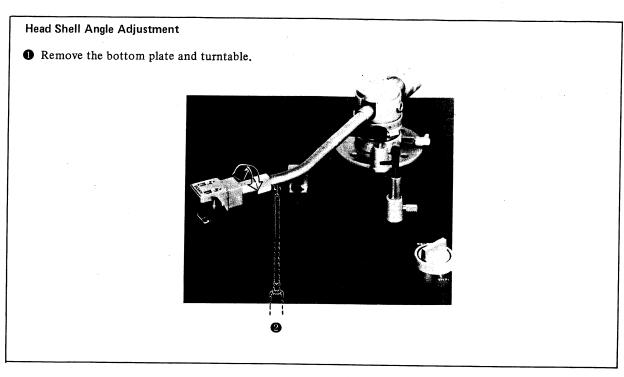


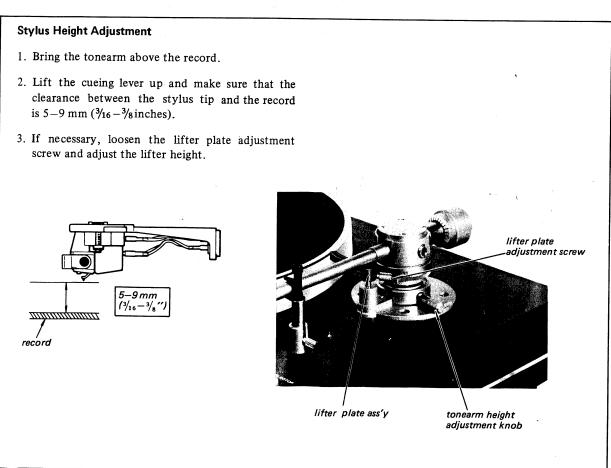




SECTION 3 ADJUSTMENTS

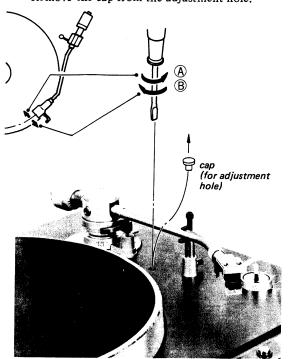
3-1. MECHANICAL ADJUSTMENTS





Stylus Drop-point Adjustment

• Remove the cap from the adjustment hole.



1. Set the record size selector lever to the 30 (12") position and make sure that the stylus gets down on the specified point of the test record.

test record: YFSC-16

Record size selector lever position	Count of drop-point
30 (12")	4 to 16
25 (10")	6 to 24
17 (7")	7 to 25

2. If necessary, insert the screwdriver into the hole and adjust the drop-point by turning the adjustment screw.

To change the drop-point inward

Turn the adjustment screw slightly counterclockwise (A).

To change the drop-point outward:

Turn the adjustment screw slightly clockwise $\ensuremath{\mathbb{B}}$

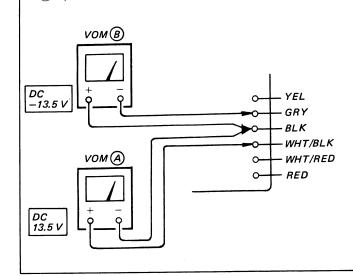
3. Once it is properly adjusted with a 30 cm (12") record, the drop-point will be correct for 17 cm (7") and 25 cm (10") records as well.

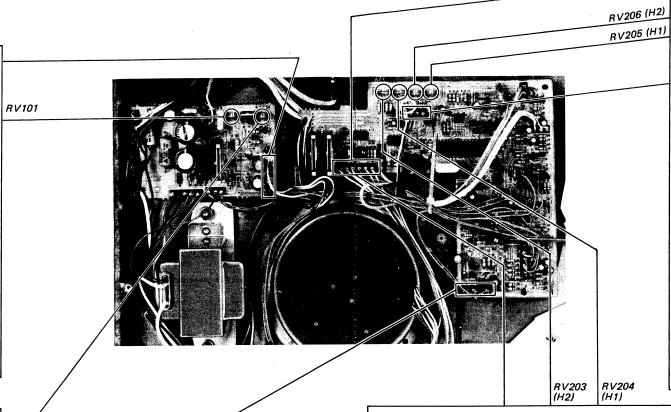
Note: The stylus drop-point is changed to about 12 mm ($\frac{1}{2}$?) by one turn of the adjustment screw.

3-2. ELECTRICAL ADJUSTMENTS

B+ Voltage Adjustment

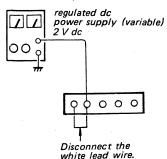
Adjust RV101 for 13.5 V dc reading on the VOM A , and -13.5 V dc reading on the VOM B .



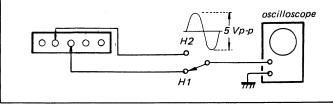


Hall Device Gain Adjustment (33½ rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.

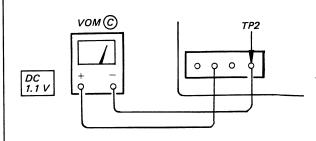


- 2. Connect an oscilloscope to H1 and adjust RV205 for the specified waveform on the oscilloscope.
- 3. Connect an oscilloscope to H2 and adjust RV206 for the specified waveform on the oscilloscope.

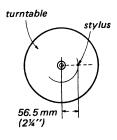


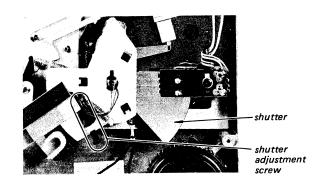
Automatic Return Adjustment

- 1. Set the power switch on.
- 2. Bring the tonearm toward the center spindle side.
- 3. Adjust RV102 for 1.1 V dc reading on the VOM



4. Set the stylus position as shown below. Adjust the shutter adjustment screw for 7.3 V dc reading on the VOM ©.

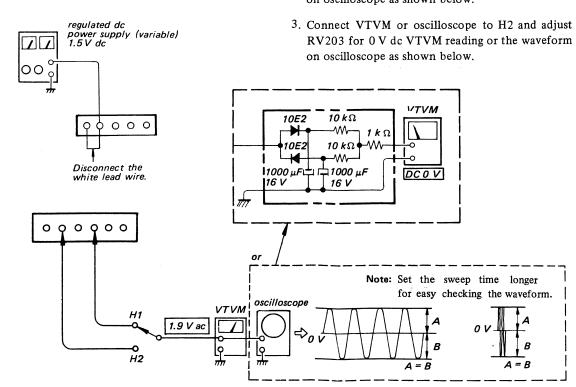




- 5. Play the test record (YFSC-6, BAND 2, 33 rpm).
- 6. Turn the shutter adjustment screw so that tonearm starts to return at count of 15-17.
- 7. Play the test record (YFSC-6, BAND 3, 33 rpm).
- 8. Adjust RV102 so that the tonearm starts to return when only 1 kHz playback signal is heard.
- 9. If RV102 is turned, readjust the steps 4 to 7 serveral times.

Motor Amp Offset Adjustment (33 rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.



he
2. Connect VTVM or oscilloscope to H1 and adjust
RV204 for 0 V dc VTVM reading or the waveform
on oscilloscope as shown below.

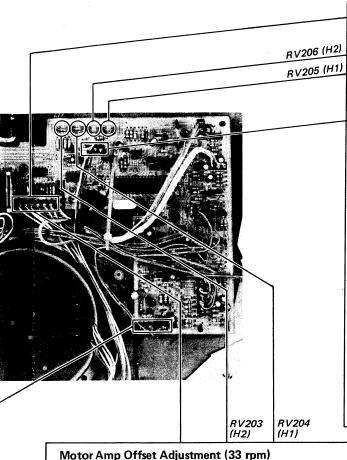
P(

1.

3.

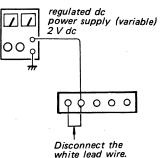
5.

2

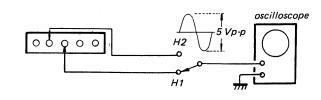


Hall Device Gain Adjustment (33½ rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.

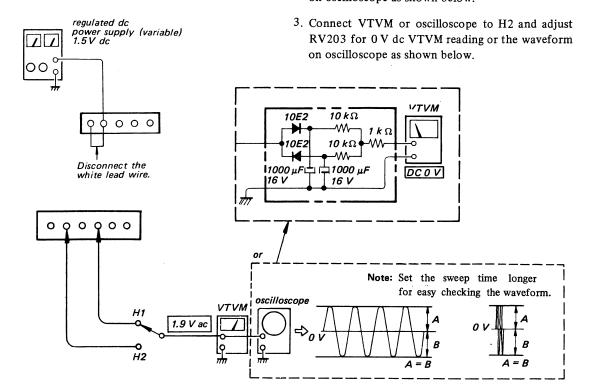


- 2. Connect an oscilloscope to H1 and adjust RV205 for the specified waveform on the oscilloscope.
- 3. Connect an oscilloscope to H2 and adjust RV206 for the specified waveform on the oscilloscope.

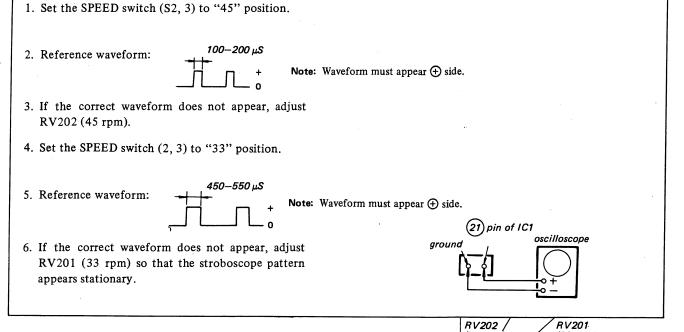


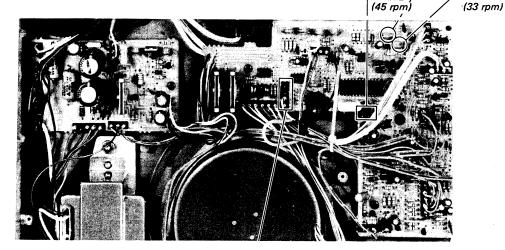
Motor Amp Offset Adjustment (33 rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.



2. Connect, VTVM or oscilloscope to H1 and adjust $RV204\ for\ 0\ V\ dc\ VTVM$ reading or the waveform on oscilloscope as shown below.





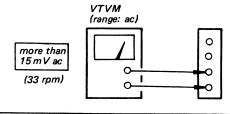
Speed Detecting Head Output Level Adjustment

Turntable Speed Adjustment

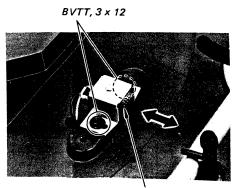
Power switch: ON

- 1. Adjust the position of the head so that the VTVM reading is more than 15 mV ac at 33 rpm.
- 2. Make sure that the head does not touch the turntable and tighten the screws securely.

Note: The clearance between the magnet coated rim and the speed detecting head must be more than 0.3 mm.



- Adjustment Location -



speed detecting head (HMG)

D3,4

SLP24B

[SERVO AMP/SYSTEM CONTROL BOARD]

※C100, 101 AEP, MODEL----0.01/450V I(AEP, E1, E2 MODEL)EI, E2MODEL ---0.01/300V

-17-

SECTION 4

Note: The components identified by shading and mark name critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro

spécifié. 4-1. SCHEMATIC DIAGRAM **DIAGRAMS** US, CANADIAN MODEL Q202 2SA733P SPEED CHANGE CX193 PLL R220 220(1/2W) Q206,208 25C1419 C Q203 2SC945 Q207, 209 2SA755 C MOTOR DRI IC3 LIPC4557C MOTOR DRIVE R216 **≸** FILTER Q203 CARTRIDGE OUTPUT 247 R218 33K (PHONO PLUG) (5V) · Q202 RII5 4.7 1/N2 freque-ncy divider IC3(1/2) - Im 0.2V Н1 C209 51P \$R215 \$33K SPEED \$ R212 C208 ± C212 + R219 **}** R251 **≸** start/stop flip-frop L2 0 þ R248 33K C210 22000F R239 39K IC3(1/2) H 2 RV204 10K OFFSET L3 0 H1 . H 2 5GF-MS-07F HALL DEVICE C 219 0.1 L4 a **\$**R237 **\$**39K IC2(1/2) Q201 R252 UPC4557C 2SC945 IC 2(2/I) UPC4557C DC AMP IC2(I/2) SWITCHING MOTOR SECTION 0204 2SC945P R229 R2300V(2.1V)
10K 10K
C215 SPEED DETECTING HEAD R202 10K GAIN CANADIAN Q104~106 LAMP DRIVE ՛® POWER SUPPLY BOARD Q204 Q104 2SC1419 D201 1T40 D202 1T40 R206 **≸** SPEED SELECT R111 } 10 K } R113 1 K BOARD -10.6V Q105 Q210, 205 2SC945 SPEED CHANGE FLIP-FLOP Q405,406 2SC945 MOTOR FLIP-FLOP Q304 2SC945 SOLENOID DRIVE Q302 2SC945 SWITCHING RETURN POSITION POWER S1-1 PMI A SOLENOID (T)" Q303 2SC945 SWITCHING WHEN PMI IS ACTIVATED, PMI PUSHES CLAW OF 13**.**5V D1 D203 1T40 R401 OV 0.6V 10K (0.6V)/(0V) -17,5V R224 \$ D107 EQA01-06 Q105,106 2SC945P R227 100K 33 0303 } D2 **(** Q102 2SC945P_{13,5V} Q101 REG 2SC1419C SPEED T D101-104 R428 33K **≹**R429 33 K S3 GP08 45 Q401 2SC945 INVERTER POWER D406 1T40 Q305,306 2SC945 Q402,403 2SC945 START/STOP FLIP-FLOP SPEED DET SI P24 B SWITCH BOARD **(1)** D3 . D302 EQA01-11 B+ VIO 220V S4 ≸R103 11**K** START **★C101 CORG 120V** C401 ± ONHT OV -13.5V Q103 2SA844-24V D106 EQA01-15 Q301,Q404 2SC945 REPEAT FLIP - FLOP Q307 2SC945 **⚠** D105 172V R107 8.2K(1W) SIB01-06 8.7 V R425 33K ≹R421 10 K RECT D4 🕏 R423 100K OV ((13V)) NLI 🗘 D411 1T40 C407 R418 3.3 10 K 25V 0.307 2SC945 RESET S8 S1-2 120V+220V POWER S8 D 413, 414 1 T 4 0 NEON LAMP BOARD S7 PLAY (ON: DURING) D414 S5 VOLTAGE SELECTOR REPEAT S6 RETURN Q107 2SC926A ON: DURING
RETURN
OPERATION
OF TONEARM CdS NEON LAMP DRIVE

AUTO RETURN DETECTING SHUTTER

and mark nly with

306 2SC945 PEED DET

D302 EQA01-11

PC CdS

S7 PLAY (ON: DURING)

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro

D107 EQA01-06

A-13,5V Q103 2SA844-24V D106 EQAO1-15

172V R107 8.2K(1W)

-W-

∆ 75∨

Q107 2SC926A

-17-

D101-104

⚠ D105

SIB01-06 RECT

 Λ

Q102 Q101 2SC945P 2SC1419C REG 13.5V REG

13.3K 13.3K B+

\$R103 11K

NLI A

(NEON LAMP BOARD)

C105 100 16V

PS-X60 PS-X60

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in Ω, ¼ W unless otherwise noted. KΩ: 1000 Ω; MΩ: 1000 kΩ
- m : nonflammable resistor.
- _____: panel designation.
- _____ : adjustment for repair.
- All adjustable resistors have characteristic curve B, unless otherwise noted.
- ---: B+ bus.
- — : B-bus.
- Readings are taken under no-signal conditions with a VOM (20 $k\Omega/V$).

no mark : Tonearm is on arm rest.

S1 (POWER) · · · · · · · · · ON) : S2 (SPEED 33) · · · · · · · · ON

Tonearm is on arm rest.

Selector knob · · · · · · · · MANUAL

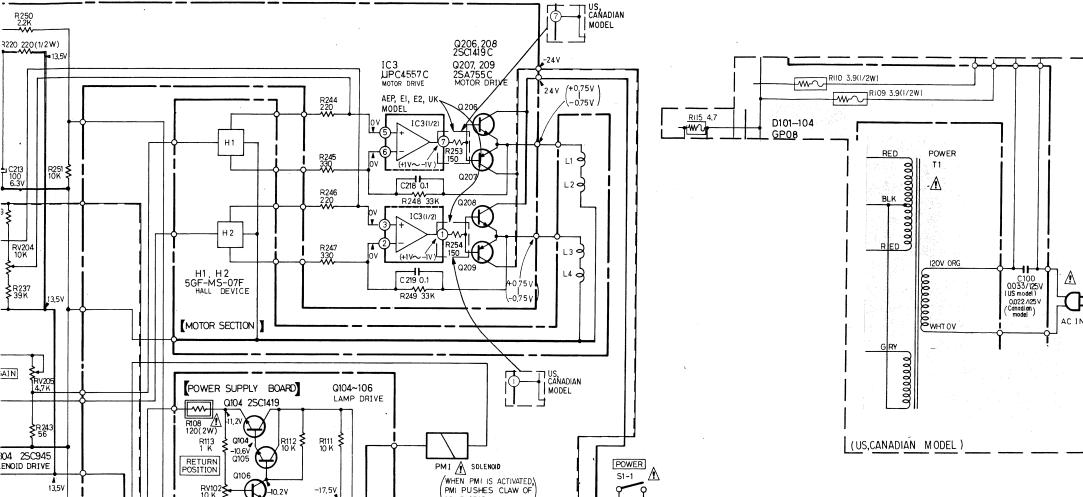
S1 (POWER)· · · · · · · · · ON S4 (START/STOP) · · · · · · · ON

)) When S5 (REPEAT) is pressed during play at

33 rpm.

Switch

Ref. No.	Switch	Position
S1	POWER	OFF
S2	SPEED 33	OFF
S3	SPEED 45	OFF
S4	START/STOP	OFF
S5	REPEAT	OFF
S6	RETURN	OFF
S 7	PLAY	OFF ·
S8	VOLTAGE	220 V (AEP, E1,
	SELECTOR	E2 model)
		240 V (UK model)



POWER

VIO 220V

ORG 120V

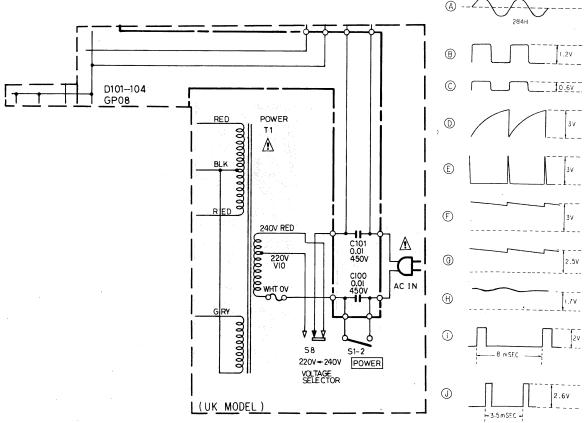
58

120V-220V

VOLTAGE SELECTOR

.X:C100, 101 AEP, MODEL----0.01/450V (AEP, E1, E2 MODEL)EI, E2MODEL ---0.01/300V

POWER





Replacement Semiconductors

For replacement, use semiconductors except in ().

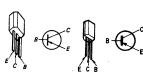
Q101, Q206, 208) 2SC1061 (2SC1419C) Q104 2SC1061 (2SC1419)



Q102, 105 Q106, 204) 2SC1364 (2SC945P) Q201, 203 Q205, 210 Q301-307 Q401-406) 2SC1364 (2SC945)



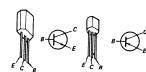
Q103: 2SA678 (2SA844)



Q107: 2SC926A



Q202: 2SA678 (2SA733P)



Q207, 209: 2SA671 (2SA755C)



IC1: CX193



IC2, 3: μPC4557C



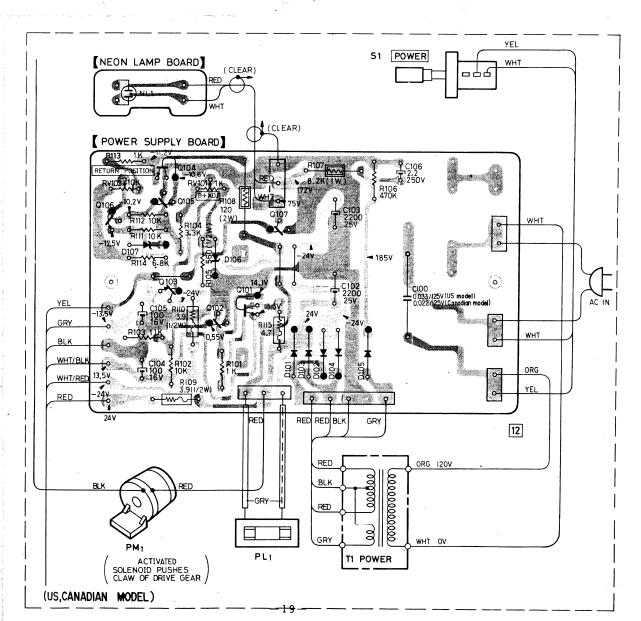
D1-4: SLP24B

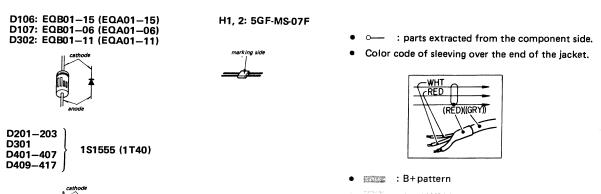
D101-104: 10E2 (GP08)

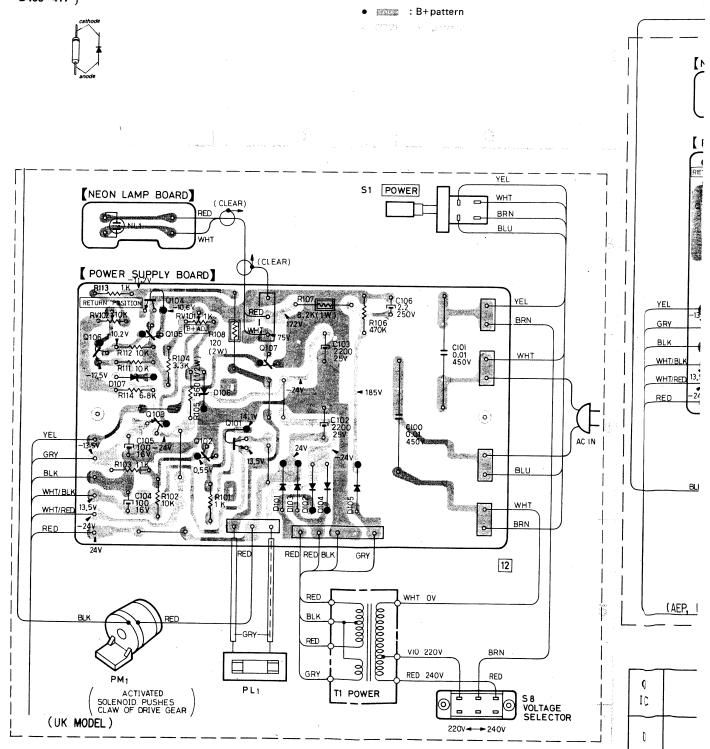


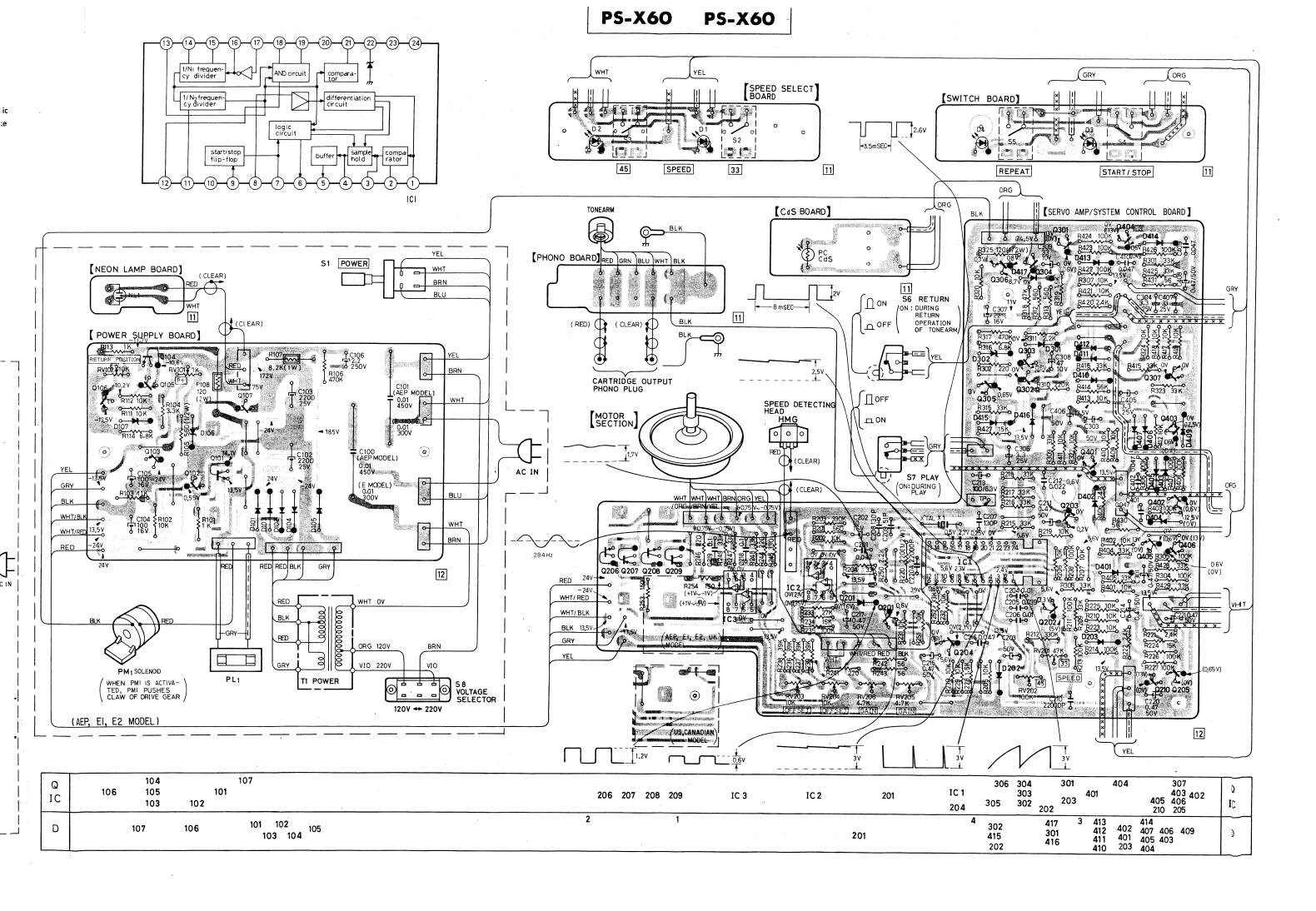
D105: 10D6 (SIB01-06)



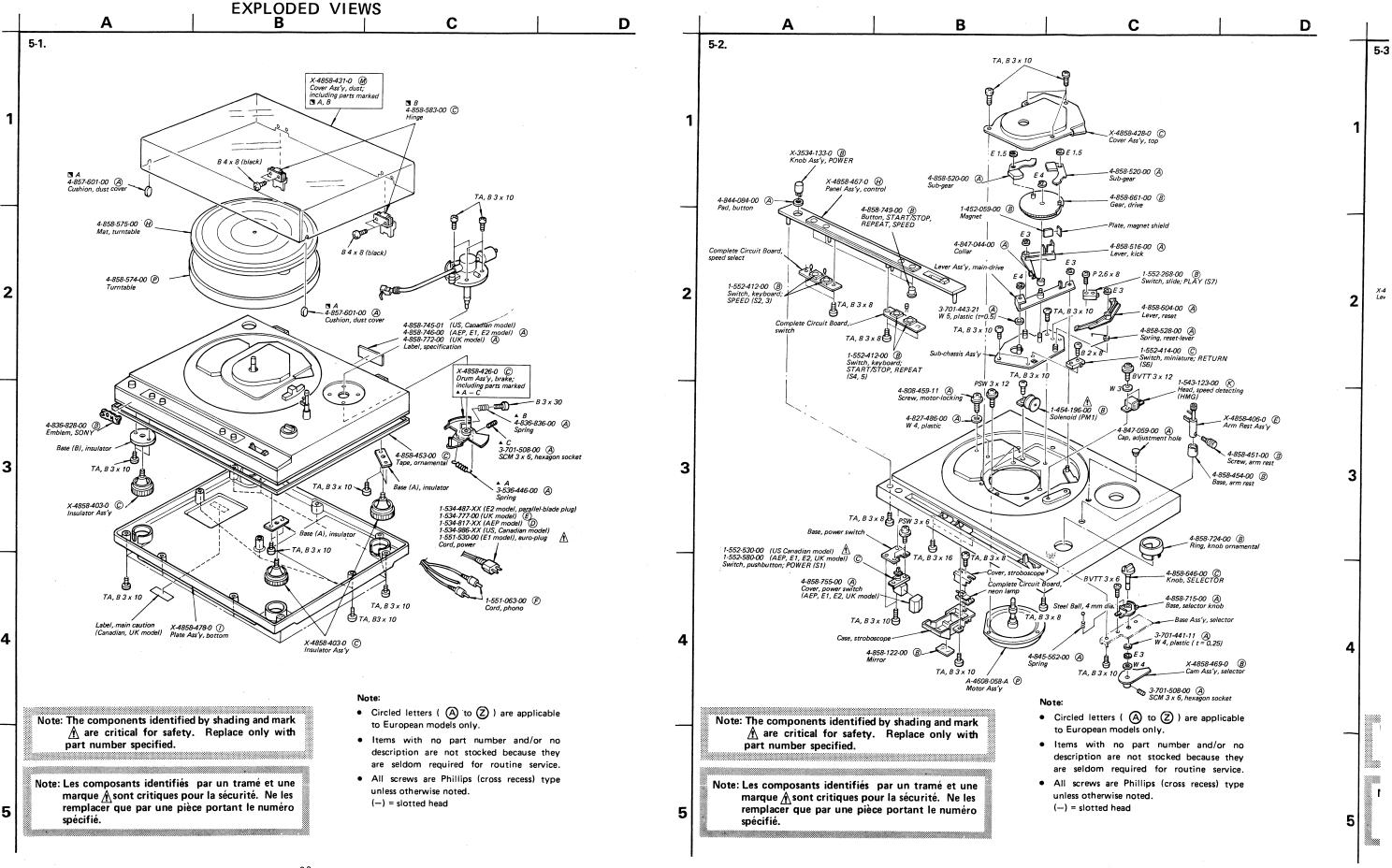


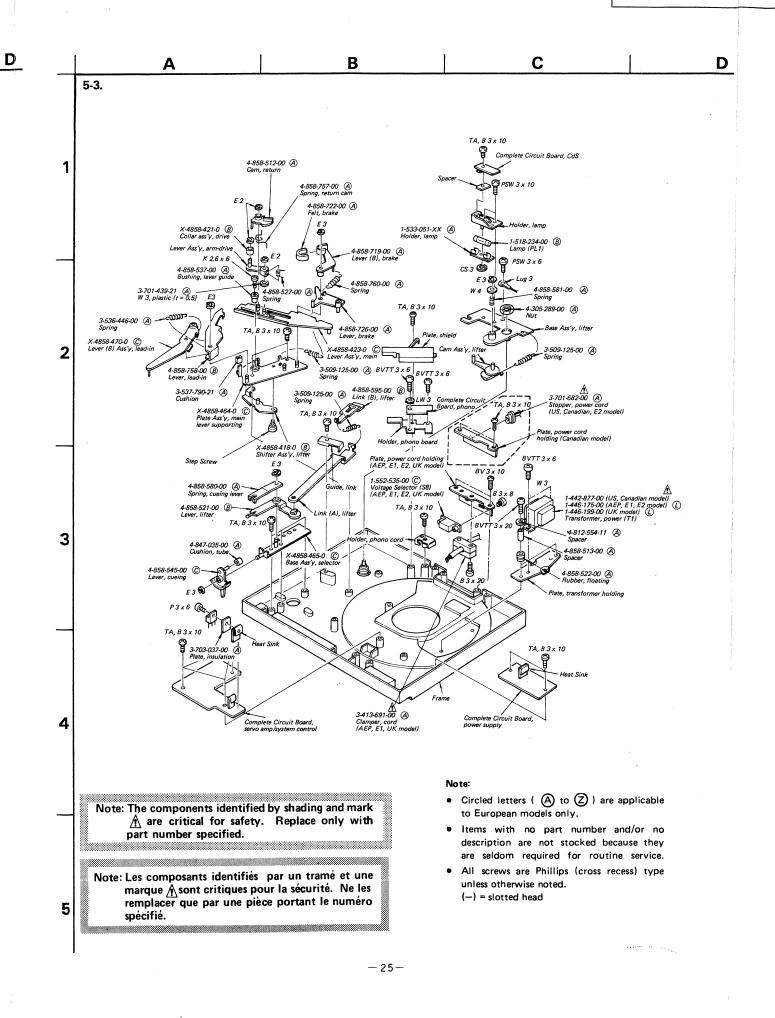


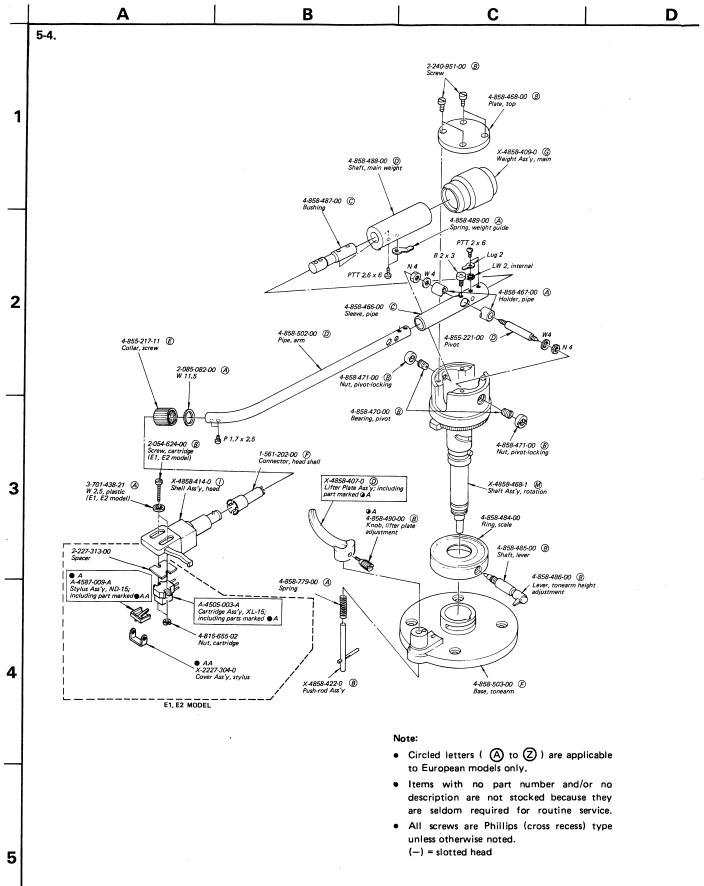




SECTION 5







SECTION 6

ELECTRICAL PARTS LIST Note: Circled letters ((A) to (Z)) are applicable to European models only.

Ref. No.	Part No.	Description
	SEMIC	ONDUCTORS

		SEMICONDUCTORS
		Transistors
⇒	Q101	8-729-316-12 (D) 2SC1061
⇒	Q102	8-729-663-47 B 2SC1364
⇒	Q103	8-727-788-00 B 2SA678
	Q104	8-729-316-12 D 2SC1061
⇒	Q105, 106	8-729-663-47 B 2SC1364
	Q107	8-720-950-03 © 2SC926A
⇒	Q201	8-729-663-47 (B) 2SC1364
⇒	Q202	8-727-788-00 B 2SA678
	Q203-205	
⇒		8-729-316-12 (D) 2SC1061
⇒	Q207	8-729-317-12 E 2SA671
⇒	Q208	8-729-316-12 (D) 2SC1061
	Q209	8-729-317-12 (E) 2SA671
	Q210	8-729-663-47 B 2SC1364
⇒	O301-307	8-729-663-47 (B) 2SC1364
⇒	Q401-406	_
	Q101 100	0°125°005°47 (B) 25C 1504
		ICs
	IC1	8-751-930-00 (K) CX193
	IC2, 3	8-759-145-57 ΟμPC4557C
		Diodes
	D1-4	8-719-900-24 © SLP24B
$\Rightarrow \frac{1}{2}$		^ 8-719-200-02 ® 10E2
$\Rightarrow \frac{1}{2}$	D105	№-719-210-06 ® 10D6
⇒	D106	8-719-931-15 B EQB01-15
		A

⇒ D107 8-719-931-06 B EQB01-06 8-719-815-55 (B) 1S1555 ⇒ D201-203

8-719-815-55 B 1S1555 ⇒ D301 8-719-930-11 B EQB01-11 ⇒ D302 \Rightarrow D401-407 8-719-815-55 B 1S1555

⇒ D409-417 8-719-815-55 B 1S1555

Hall Devices

8-719-905-07 **D** 5GF-MS-07F H1, 2

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

		applicab	le to Eu	ropean models on
Ref. No.	Part No.	Desc	cription	
	TR	ANSFORM	ERS	
T1 T1	<u>↑</u> 1-442-877-0 <u>↑</u> 1-446-175-0 <u>↑</u> 1-446-199-0	00 D Powe	r (AEP,	anadian model) E1, E2 model) odel)
	c	APACITOR	s	
50 WV or 1	tors are in µF ar less are not indi lect : electrolyt	cated except	nless oth	nerwise noted. etrolytics.
C100, 101	<u>_</u> 1-108-779-0	0 0.01	300 \	mylar (E1, E2 model)
C100, 101	<u></u>	0 (0.01	450 V	
C100	⚠ 1-130-098-0	0.022	125 V	a dia material and a second
C100	<u></u>	0.033	125 V	
C102, 103	<u>_</u> 1-123-047-00	O 2200	25 V	elect
C104, 105			16 V	elect
C106	<u> </u>	B 2.2	250 V	elect
C201	1-101-925-00	(A) 047		
C202	1-121-651-00	\sim	16 V	elect
C203	1-121-391-00	\sim	50 V	elect
C204	1-108-804-00	\simeq		mylar
C205	1-108-360-00	<u> </u>		mylar
C206	1-108-804-00	\sim		mylar
C207, 208	1-101-081-00			
C209	1-102-491-00			
C210, 220A				
C211	1-121-726-00	(A) 0.47	50 V	elect
C212	1-108-242-00	A) 0.22		mylar
C213	1-124-413-00		6.3 V	elect
C214, 215	1-121-726-00		50 V	elect
C216	1-108-812-00			mylar
C217	1-121-726-00		50 V	elect
C218, 219	1-108-870-00	(A) 0.1		mylar
C220B, 221	1-121-726-00	<u> </u>	50 V	elect
C301	1-121-726-00		50 V	elect
	20 00	9	JU •	Cicci

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No. Part No. Description

<u>Rej. 170.</u>	Furl No.	Descr	iption	
C303	1-121-391-00	(A) 1	50 V	elect
C304, 306	1-121-392-00	(A) 3.3	25 V	elect
C307	1-121-479-00	(A) 22	16 V	elect
C308	1-121-352-00	(A) 47	10 V	elect
C309	1-121-402-00	A 33	10 V	elect
C401, 402	1-101-952-00	(A) 0.047		
C405	1-121-392-00	(A) 3.3	25 V	elect
C406	1-121-391-00	(A) 1	50 V	elect
C407	1-121-392-00	(A) 3.3	25 V	elect
C408	1-121-726-00	(A) 0.47	50 V	elect
C409, 410	1-101-925-00	A 0.047		

RESISTORS

All resistors are in ohms. Common ¼ W carbon resistors are

All adjustable resistors have characteristic curve B, unless otherwise noted. $k\Omega:1000\,\Omega, M\Omega:1000\,k\Omega$

R105	,	A) 560	½ W	carbon
R107	<u></u> 1-213-154-00 (A) 8.2 k	1 W	metal oxide
R108	<u> </u>	A) 120	2 W	(nonflammable metal oxide
D100 110	λ			(nonflammable
K109, 110	1-212-948-00	3.9	½ W	fusible
			(US, C	Canadian model)
R115	<u>↑</u> 1-217-383-00	4.7	1/4 W	fusible
			(US, C	Canadian model)
R220	1-244-857-00 (A	220	½ W	carbon
R325	1-244-851-00)120	½ W	carbon
RV101	1-224-631-00 (A) 1 k, adi	iustable:	B+ VOLTAGE
RV102	1-224-645-XX			
		POSIT		
RV201	1-224-636-00 (A)47 k, ac	ljustable	; SPEED 33
RV202	1-224-648-XXB			
RV203, 20				
RV205, 20				

SWITCHES

1	1.552-530-00	Pushbutton, power
		(US, Canadian mo

odel) S1 1-552-580-00 Pushbutton, power (AEP, UK, E1, E2 model)

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Circled letters ((A) to (Z)) are applicable to European models only.

	application to European models only.
Ref. No	Description Description
S2-5	1-552-412-00 (B) Keyboard, SPEED, START/ STOP, REPEAT
S6	1-552-414-00 B Miniature, RETURN
S7	1-552-268-00 B Slide, PLAY
S8	⚠1-552-535-00
	MISCELLANEOUS
HMG	1-543-123-00 (K) Head, speed detecting
NL1	<u>M</u> 1-519-152-00 B Lamp, neon
PC	1-800-652-00 B CdS
PL1	1-518-234-00 (B) Lamp
PM1	<u> </u>
X1	1-527-380-21 D Crystal
	A-4505-003-A Cartridge Ass'y, XL-15
	(E1, E2 model)
	A-4608-058-AP Motor Ass'y
	1-452-059-00 B Magnet
	1-533-051-XX (A) Holder, lamp
	<u>↑</u> 1-534-487-XX Cord, power; E2 model;
	parallel-blade plug
1	
	1-534-777-00 B Cord, power (UK model)
	1-534-817-XX D Cord, power (AEP model)
	1-534-986-XX Cord, power (US, Canadian model)
	1-551-063-00 (F) Cord, phono
	1-551-530-00 Cord, power; E1 model; euro-plug
	1-561-202-00 F Connector, head shell

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (A to Z) are applicable to European models only.

ACCESSORIES AND PACKING MATERIALS Description Part No. B) Screw (A), cartridge 2-056-532-00 (AEP, US, Canadian, UK model) (A) Screw (E), cartridge 2-224-081-00 (AEP, US, Canadian, UK model) (A) Spacer 2-227-313-00 (AEP, US, Canadian, UK model) A W 2.5, plastic 3-701-438-21 (AEP, US, Canadian, UK model) (A) Bag, plastic 3-701-613-00 A Bag, plastic 3-701-614-00 (AEP, US, Canadian, UK model) A Bag, plastic 3-701-616-00 A Bag, plastic 3-701-630-00 (A) Bag, plastic 3-701-634-00 3-710-806-00 (A) Adaptor, 45 r.p.m. (D) Manual, instruction 3-770-585-11 (AEP, E1, E2, UK model) Manual, instruction 3-770-585-21 (US, Canadian model) Sheet, XL-15 (E1, E2 model) 3-794-265-11 Manual, instruction; French 3-749-284-31 (Canadian model) (A) Nut (A), cartridge 4-815-655-00 (AEP, US, Canadian, UK model) (A) Cushion, arm pipe 4-848-002-00 (A) Drop-point Adjustment Key 4-858-407-00 (C) Extra Weight 4-858-483-00 C Cushion, right 4-858-585-00 C Cushion, left 4-858-586-00 B Case, accessory Bag, protection 4-858-587-00 4-858-588-00 A Plate, protection 4-858-589-00 Box, accessory 4-858-590-00 (A) Cushion, main weight shaft 4-858-593-00 F Carton 4-858-735-00

Specifications for Cartridge XL-15 (E model)

Moving-magnet Type:

Frequency Response: 10 - 30, 000 Hz

Channel Separation: 25 dB at 1 kHz

Output Voltage: 4 mV at 1 kHz, 5 cm/sec, 45°

Load Impedance:

1.2 - 2.5 g (1.7 g recommended) Tracking Force:

Sony ND-15G

(conical 0.5 mil diamond)

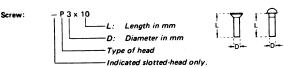
Weight: 5.2 g

1/4 WATT CARBON RESISTORS ®

Note: Circled letter (A) is applicable to European models only.

Ω	Part No	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
- 52							1 046 472 00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k				110k	1-246-522-00	1 1	1-210-814-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k		11k	1-246-498-00	120k	1-246-523-00	1 1	1-210-815-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00		1-246-524-00		1-210-816-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-525-00		1-210-817-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-323-00	1.5141	1 210 017 00
			1 040 400 00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.6	1-246-406-00	16	1-246-430-00	180	1-246-455-00	1.8k		18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
1.8	1-246-407-00	18	1-246-431-00		1-246-456-00	2.0k		20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-457-00	2.0k		22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.2	1-246-409-00	22	1-246-433-00	220	-	2.2k		24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4K	1-240 302 00	LIK	2.0 000 00				
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	l	li .	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	11	1-244-756-00
1	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	11	1-244-757-00
3.3	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	11	1-244-758-00
3.6	1-246-414-00	39	1-246-439-00	390	1-246-463-00	ll .	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
3.9	1-246-415-00	39	1 240 455 00	000	1 210 100 10						1 046 506 00	4 234	1-244-760-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1	43k	1-246-512-00	430k	1	H	1-244-761-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1	11	1-244-762-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	I .	51k	1-246-514-00	510k		1	1-244-702-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1 .	И	
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
"-							1 046 402 00	68k	1-246-517-00	680k	1-246-541-00	1	
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	ii .		75k	1-246-518-00	1		N	
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	И.	l	1	1-246-519-00			11	
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	li .		1)		1		H	
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	alok	1-240 344-00		
3.1	1 240 424 00											1	

HARDWARE NOMENCLATURE



Unless otherwise indicated, it means cross-recessed head (Phillips type)

Reference Designation Shape		Description	Remarks		
		SCREWS			
Р	€	pan-head screw	binding-head (B) screw for replacement		
PWH	€13	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement		
PS PSP	853-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment		
PSW PSPW	0 \$\$	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement		
R	€3	round-head screw	binding-head (B) screw for replacement		
K	Þ	flat-countersunk-head screw			
RK	₽	oval-countersunk-head screw			
В	Ð	binding-head screw			
т (рэ		truss-head screw	binding-head (B) screw for replacement		
F }⊒		flat-fillister-head screw			
RF €⊒		fillister-head screw			
BV	€>	braizer-head screw			

-Diameter of usable screw or shaft

Reference Shape		Description	Remarks
Designation	Snape		
		SELF TAPPING SCRE	
TA	\blacksquare	self-tapping screw	ex: TA, P 3 x 10
PTP	₩	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement
PTPWH	₩	pan-nead self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH	+	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
	1	SET SCREWS	
SC		set screw	
SC	-⊚⊑3-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N	-[]-@-	nut	
		WASHERS	
w	0	flat washer	
SW		spring washer	
LW	0	internal-tooth lock washer	ex: LW3, internal
LW	*	external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E	6	retaining ring	
G	n	grip-type retaining ring	

Sony Corporation

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STEREO TURNTABLE SYSTEM



US Model Canadian Model AEP Model UK Model E Model

CORRECTION



: Corrected Portion.

Correct the service manual as shown below.

No. 1 January, 1979

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